This listing of claims will replace all prior versions, and listing, of claims in the application:

## **Listing of Claims**:

1. (currently amended) An assembly for making an electrofusion weld joint, comprising:

a meltable member;

at least one fastener; and

a heating element secured to said meltable member by said at least one fastener, at least a portion of said at least one fastener is between an inner surface and an outer surface of said meltable member.

2. (original) The assembly of claim 1, wherein

said at least one fastener partially surrounds a portion of said heating element and extends through at least a portion of a predetermined melt zone of said meltable member into a non-melt zone of said meltable member to prevent substantial movement of said heating element when said predetermined melt zone is molten.

- (original) The assembly of claim 1, wherein said heating element is substantially S-shaped.
- (original) The assembly of claim 1, wherein said heating element is substantially V-shaped.
- 5. (original) The assembly of claim 3, wherein said at least one fastener secures said heating element to said meltable member at each bend of said substantially S-shaped heating element.
- 6. (original) The assembly of claim 1, wherein said meltable member is made of a thermoplastic material.

- 7. (original) The assembly of claim 1, wherein said meltable member is a pipe having a bell end.
- 8. (original) The assembly of claim 7, wherein said bell end of said pipe is tapered.
- 9. (original) The assembly of claim 8, wherein said taper is about 3 to 10 degrees.
- 10. (original) The assembly of claim 1, wherein said meltable member is a pipe having a spigot end.

Claims 11 - 16 – canceled

- 17. (original) A pipe assembly for making an electrofusion joint, comprising:
  - a pipe having a first end and a second end; and
  - a heating element for creating a predetermined melt zone in said pipe proximal said heating element when said heating element is supplied with electrical current;
  - said heating element being attached to said first end of said pipe by at least one fastener:
  - said at least one fastener at least partially surrounding a portion of said heating element and extending through said predetermined melt zone of said pipe into a non-melt zone portion of said pipe to prevent substantial movement of said heating element when said predetermined melt zone is molten.
- 18. (original) The pipe assembly of claim 17, wherein said first pipe end is a bell end.

- 19. (original) The pipe assembly of claim 18, further comprising a second pipe having a spigot end received by said bell end for making an electrofusion joint.
- 20. (original) The pipe assembly of claim 17, wherein said bell end of said pipe is tapered.
- 21. (original) The pipe assembly of claim 20, wherein said taper is about 3 to 10 degrees.
- 22. (original) The pipe assembly of claim 17, wherein said first pipe end is a spigot end.
- 23. (original) The pipe assembly of claim 22, further comprising a second pipe having a bell end for receiving said spigot end for making an electrofusion joint.
- 24. (original) The pipe assembly of claim 23, wherein said bell end of said second pipe is tapered.
- 25. (original) The pipe assembly of claim 24, wherein said taper is about 3 to 10 degrees.
- 26. (original) An assembly for making an electrofusion joint, comprising:

  a first pipe having a spigot end;

  a second pipe having a bell end for receiving said spigot end of said first pipe;

  a heating element attached to said bell end of said second pipe or to said spigot

  end of said first pipe for creating a melt zone having a melt zone

  portion in each of said first and second pipes proximal said heating

  element when supplying said heating element with electrical current;

  and

- at least one fastener at least partially surrounding said heating element and extending through said melt zone portion of said pipe to which said heating element is attached and into a non-melt zone of said pipe in which said heating element is attached to prevent substantial movement of said heating element when supplying said heating element with electrical current for making said electrofusion joint.
- 27. (original) The assembly of claim 26, wherein said heating element has a substantially zigzag shape.
- 28. (original) The assembly of claim 26, wherein said heating element has a substantially helical shape.
- 29. (original) The assembly of claim 26, wherein said first and second pipes are formed of thermoplastic polymers.
- 30. (original) The assembly of claim 26, wherein said at least one fastener is metallic.
- 31. (original) The assembly of claim 26, wherein said bell end of said second pipe is tapered to facilitate receiving said spigot end of said first pipe.
- 32. (original) The assembly of claim 31, wherein said taper is substantially 3 to 10 degrees.
- 33. (original) The assembly of claim 26, wherein

  at least two heating elements are embedded in said spigot end of said first pipe

  or in said bell end of said second pipe for creating said melt zone

  proximal each of said heating elements when supplying power to each

of said at least two heating elements for making said electrofusion joint.

34. (original) The assembly of claim 26, wherein said first and second pipes have a diameter of at least eighteen inches.

Claims 35 - 44 - canceled

45. (original) A method of forming an electrofusion joint, comprising:

providing a first pipe having a spigot end;

providing a second pipe having a bell end;

embedding a heating element and a plurality of fasteners in either said spigot end of said first pipe or in said bell end of said second pipe, said at least one fastener extending through a predetermined melt zone into a non-melt zone portion of said embedded pipe;

inserting said spigot end of said first pipe into said bell end of said second pipe;

creating a predetermined melt zone proximal said heating element by supplying electrical current to said heating element, said heating element being prevented from substantially moving when said predetermined melt zone is molten by said at least one fastener extending through said melt zone and into said non-melt zone of said embedded pipe; and

terminating said supply of electrical current to said heating element to fuse said first and second pipes together.

46. (original) The method according to claim 45, wherein embedding a heating element and a plurality of fasteners further comprises:

positioning said heating element within an inserting ring;
positioning said inserting ring within said spigot end of said first pipe or in
said bell end of said second pipe;

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inserting at least one of said at least one fastener to initially fix said heating element to said pipe;

removing said inserting ring;

inserting remaining plurality of fasteners to securely fix said heating element within pipe;

inserting a welding ring within said pipe in which said heating element is securely fixed;

heating said welding ring to soften said pipe end proximal said welding ring, thereby causing said heating element and said plurality of fasteners to sink into softened pipe;

terminating said heating of said welding ring, thereby embedding said heating element and said plurality of fasteners in said pipe; and removing said welding ring.

- 47. (original) The method according to claim 45, wherein providing a second pipe having a bell end comprises providing said second pipe having a tapered bell end.
- 48. (original) The method according to claim 47, wherein providing said second pipe having a tapered bell end comprises providing said tapered bell end with a taper of about 3 to 10 degrees.
- 49. (original) The method according to claim 47, further comprising positioning a tensioning ring around said bell end of said second pipe; and forcing said bell end of said second pipe proximal said first pipe with said tensioning ring.
- 50. (original) The method according to claim 49, further comprising positioning a support member within said first and second pipes before forcing said bell end of said second pipe proximal said first pipe for supporting



said first and second pipes while applying said force with said tensioning ring.

51. (original) The method according to claim 45, wherein providing said first and second pipes comprises providing said first and second pipes having diameters of at least eighteen inches.

Claims 52 - 72 - canceled

- 73. (new) The assembly of claim 1, wherein said inner and outer surfaces of said meltable member are circumferential.
- 74. (new) The assembly of claim 1, wherein said at least a portion of said at least one fastener is embedded between said inner surface and said outer surface of said meltable member.
  - 75. (new) The assembly of claim 1, wherein said at least one fastener is integrally connected to said heating element.
  - 76. (new) The assembly of claim 75, wherein said at least one fastener extends through at least a portion of a predetermined melt zone of said meltable member into a non-melt zone of said meltable member to prevent substantial movement of said heating element when said predetermined melt zone is molten.
  - 77. (new) An assembly for making an electrofusion weld joint, comprising:

    a meltable member;

    at least one fastener; and

    a heating element secured to said meltable member by said at least one

    fastener, said at least one fastener at least partially surrounds a portion

    of said heating element and extends through at least a portion of a

predetermined melt zone of said meltable member into a non-melt zone of said meltable member to prevent substantial movement of said heating element when said predetermined melt zone is molten.

- 78. (new) The assembly of claim 77, wherein said heating element is substantially S-shaped.
- 79. (new) The assembly of claim 77, wherein said heating element is substantially V-shaped.
- 80. (new) The assembly of claim 78, wherein said at least one fastener secures said heating element to said meltable member at each bend of said substantially S-shaped heating element.
- 81. (new) The assembly of claim 77, wherein said meltable member is made of a thermoplastic material.
- 82. (new) The assembly of claim 77, wherein said meltable member is a pipe having a bell end.
- 83. (new) The assembly of claim 82, wherein said bell end of said pipe is tapered.
- 84. (new) The assembly of claim 83, wherein said taper is about 3 to 10 degrees.
- 85. (new) The assembly of claim 77, wherein said meltable member is a pipe having a spigot end.